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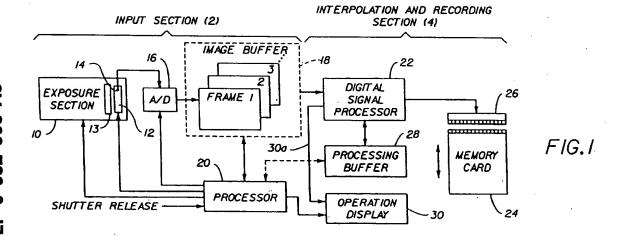
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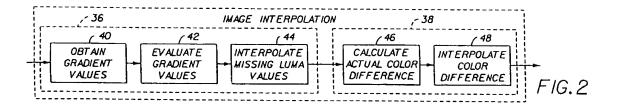
- (S) Apparatus and method for adaptively interpolating a full color image utilizing luminance gradients.
- Adaptive interpolation is performed by apparatus operating upon a digitized image signal obtained from an image sensor having color photosites that generate a plurality of color values, but only one color per photosite. A digital processor obtains gradient values from the differences between luminance values in vertical and horizontal image directions.

The gradient values are compared to a programmable threshold in order to select one of the directions as the preferred orientation for the interpolation of additional luminance values. The interpolation is then performed upon values selected to agree with the preferred orientation.



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EP 0 632 663 A3





EUROPEAN SEARCH REPORT

Application Number EP 94 10 9928

Category	Citation of document with income of relevant pass	dication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)	
A	WO-A-91 05440 (EASTM * page 3, line 2 - 1	MAN KODAK COMPAGNY) line 34 *	1,4,6,7	H04N9/04	
A	EP-A-0 199 129 (HITA * page 7, line 3 - p	ACHI LTD) page 8, line 21 *	1,4-7		
D,A	WO-A-86 01966 (EAST) * page 3, line 8 -	 MAN KODAK COMPAGNY) line 21 * 	1,6,7		
				TECHNICAL FIELDS	
				SEARCHED (Int.Cl.6)	
	The present search report has b		1		
	Place of search THE HAGUE	Date of completion of the search 28 November 1994	D-	Exeminer Out T	
Y:p	CATEGORY OF CITED DOCUME articularly relevant if taken alone urticularly relevant if combined with an ocument of the same category	NTS T: theory or princip E: earlier patent de after the filing d other D: document cited	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filling date D: document cited in the application L: document cited for other reasons		
A : technological background O : non-written disclosure P : intermediate document		& : member of the s document	 a: member of the same patent family, corresponding document 		